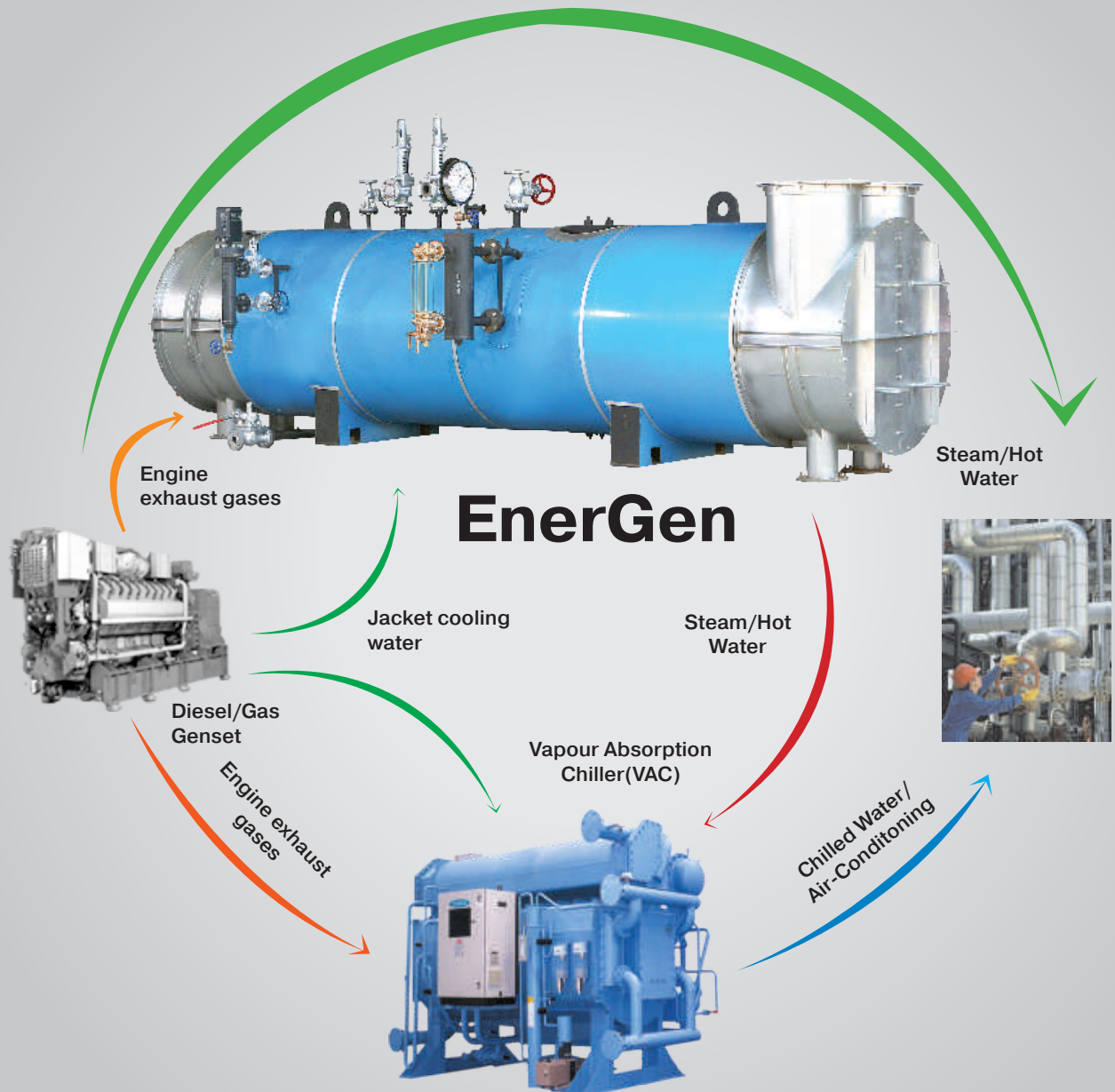




# EnerGen

Engine waste heat recovery CHPC heating product range



Capacity: 300 to 2365 kg/hr (for Gas Engines)  
230 to 985 kg/hr (for Oil Engines)

# Conserving Resources, Preserving the Future.

Thermax is a leading conglomerate in the energy and environment space and a trusted partner in energy transition. Thermax's extensive portfolio includes clean air, clean energy, clean water and chemical solutions. Backed by its longstanding industry partnerships across multiple sectors, Thermax has cultivated strong expertise in audit, consulting, execution, and maintenance coupled with digital solutions, ensuring a unified energy-management experience. Leveraging its distinctive engineering capabilities, Thermax converts costs to profits while protecting the environment – a win-win for the industry and society at large.

## The Crying Need For A Reliable Power Source

The ever widening gap between demand and supply of power from the grid is being further aggravated by the very high losses during transmission and distribution. This has made out a very strong case for distributed energy equipment, like diesel/gas genset to be located as close as possible to the point of use.



## The Ideal Solution: CHPC

CHPC is the sequential or simultaneous generation of multiple forms of useful energy within a single, integrated system. The limited system efficiency that is inherent to power generating equipment creates space for the Combined Heating, Power & Cooling (CHPC) concept.

Gensets vent huge amounts of hot exhaust gases into the atmosphere. In the absence of any suitable heat retrieving medium, the high levels of heat energy present in these high temperature exhausts are totally wasted. On the other hand, a CHPC system can effectively utilise this waste heat to generate heating and/or cooling and, in the process, it can achieve an overall thermal efficiency up to 80%.

Put simply, while generating power, steam/ hot water/chilled water can be obtained virtually free.



## CHPC: Advantage User

- Reduces as well as provides greater control over energy costs
- Improved thermal efficiency: up to 80%
- Reduced capital cost requirements and overall lower system operating cost
- Provides increased protection of the environment and aids in conservation of natural resources

## Wide Ranging Applications

CHPC systems can be used in a wide range of applications. From hot water/ steam applications, to thermal oil heaters and absorption cooling, CHPC systems are proving their worth in:

- The industrial sector that includes, among others, chemicals, textiles, leather, food, rubber, plastics, engineering, agriculture, horticulture, oil & gas, chemicals, automotive, shipping, ice manufacturing, and cold storages.
- Commercial and residential complexes that include, among others, warehouses, superstores, leisure complexes, recreational facilities, hospitals, supermarkets, airports, apartments, hotels, and resort.

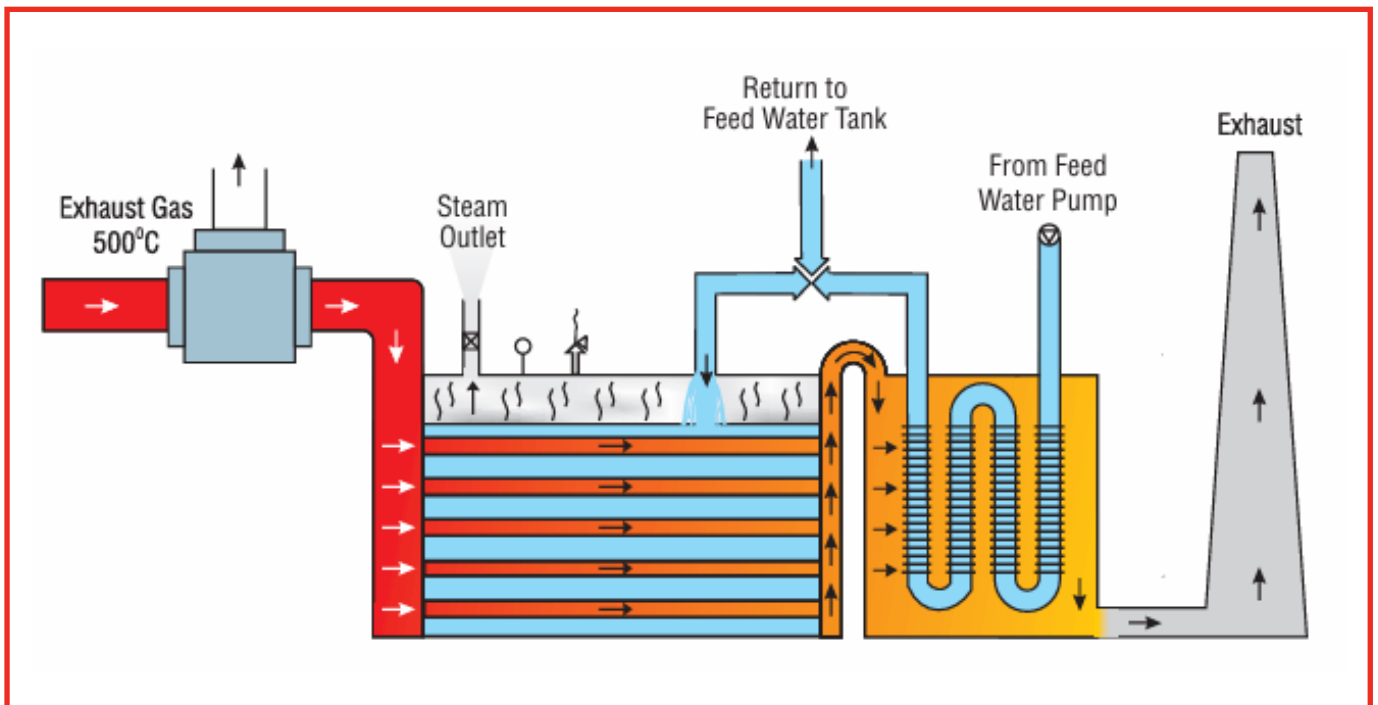
# Thermax CHPC Heating Product Range: EnerGen

EnerGen, the CHPC Heating Product Range from Thermax, can be used for a range of applications across diverse industries. Engineered for reliability, each EnerGen comes factory insulated in engine specific sizes and designs, allows multiple engine exhausts to be connected to it, is user friendly and is easy to maintain.

## EnerGen Steam Generators

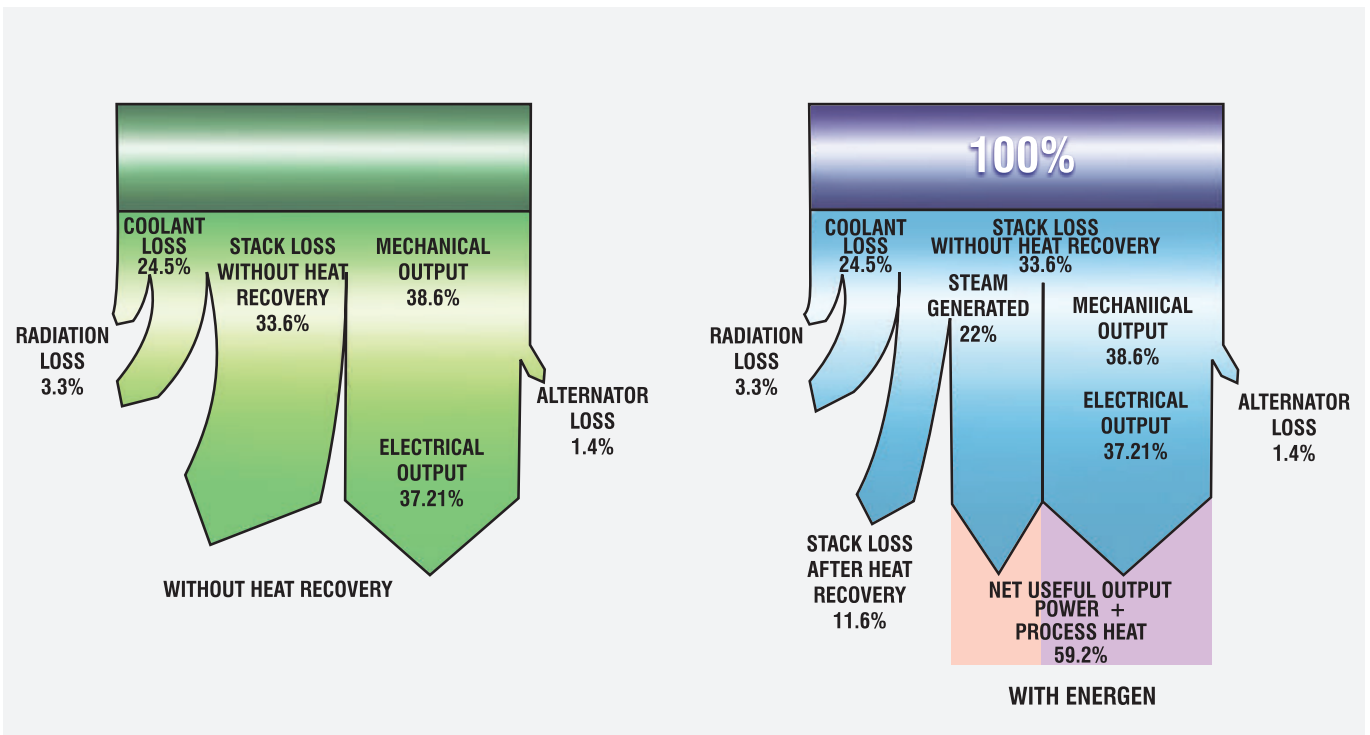
### Smoke tube type (ENSG)

- Engine Exhaust Heat Recovery Boiler
- IBR range
- Suitable for generator set engine fuels - gas and liquid fuel
- Standard range
  - Oil engines up to 2 MWe, single engine capacity
  - Gas engines up to 5 MWe, single engine capacity
- High purity steam
- Can support fluctuating steam requirements
- Steam pressure available - 10.54, 17.50 and 25 Kg/ cm<sup>2</sup>
- Adequate safeties provided to ensure no adverse effect on genset
- Customised products can be offered for higher capacities/ different engine fuel exhausts



Models	Shell Dimensions (LxBxH) in mm	Shell Weight (Kg)	Economiser + Structure Dimensions (LxBxH) in mm	Economiser Weight (Kg)
ENSG - G3	5500 x 1500 x 1550	4700	1200 x 550 x 2000 + 750 x 700 x 800	800 + 200
ENSG - G4	5200 x 1600 x 1680	5500	1400 x 550 x 1550 + 950 x 750 x 900	900 + 200
ENSG - G5	5400 x 1900 x 2000	7300	1450 x 700 x 1850 + 1000 x 900 x 900	1050 + 250
ENSG - G6	5400 x 2200 x 2150	8700	1700 x 900 x 2150 + 1150 x 950 x 1600	1600 + 300
ENSG - G7	5450 x 2600 x 2650	13100	1700 x 1000 x 2400 + 1150 x 1100 x 2150	1900 + 300
ENSG - G8	5600 x 2750 x 2850	16500	2200 x 1200 x 2500 + 1650 x 1200 x 2450	2950 + 450
ENSG - G9	6000 x 2900 x 3200	21600	2200 x 1200 x 2050 + 1650 x 1350 x 1450	3450 + 450

**Note:** Economiser and accessories are supplied loose. Steam generation depends on individual engine exhaust.

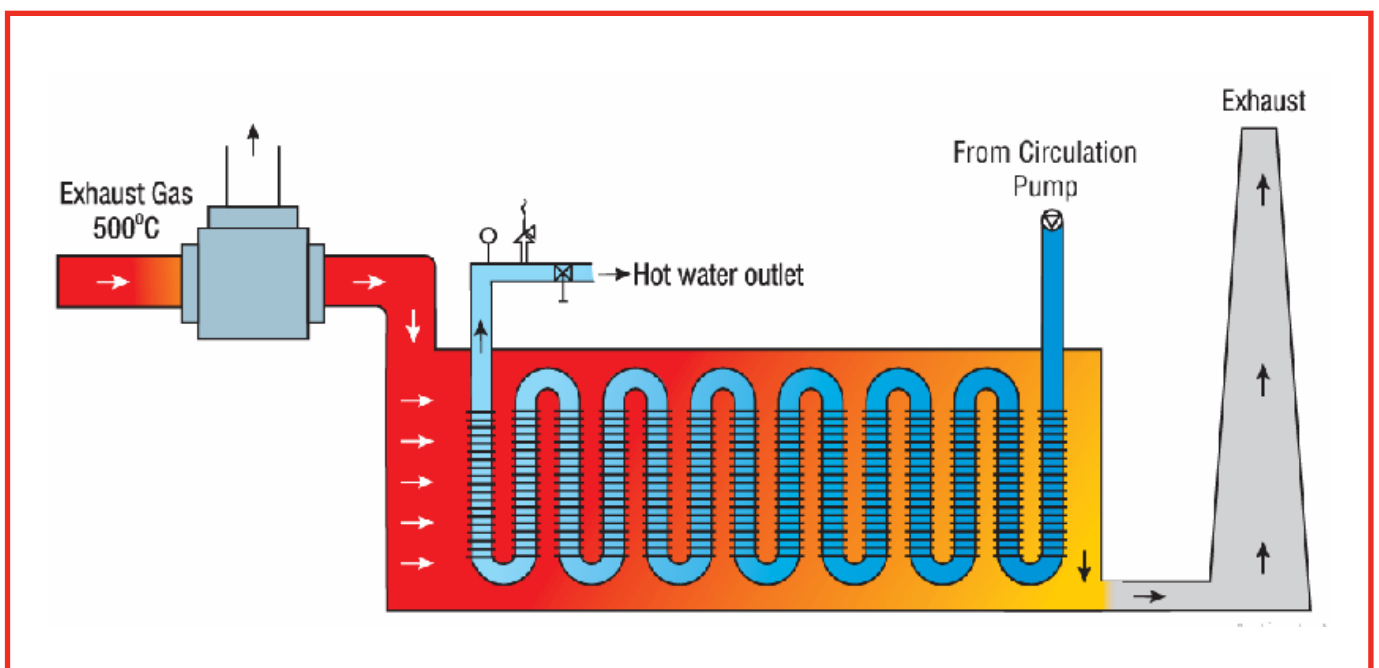


## EnerGen Hot Water Generators

### ENHW-G Water tube type

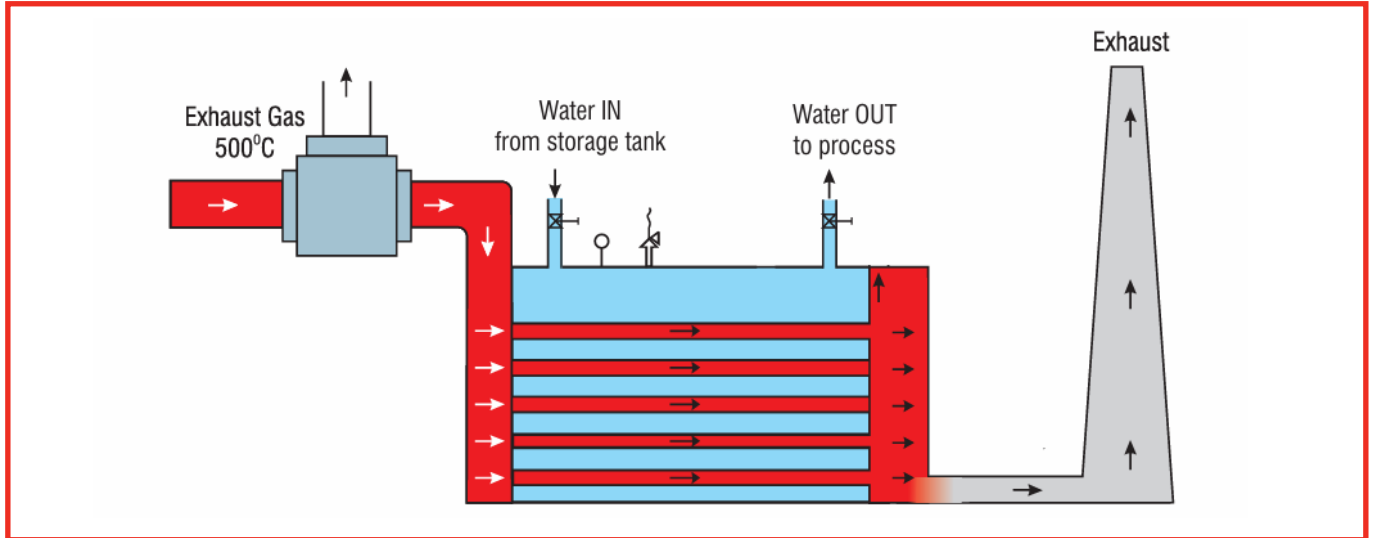
#### Smoke tube type (ENSG)

- Engine Exhaust Heat Recovery Hot Water Generator
- Suitable for generator set engine fuels
  - Gas and Liquid Fuels
- Standard range
  - Oil engines up to 2 MWe, single engine capacity
  - Gas engines up to 5 MWe, single engine capacity
- Instant hot water generation
- Adequate safety provided to ensure no adverse effect on generator set systems can also be offered



## Smoke Tube Type

- Engine Exhaust Heat Recovery Hot Water Generator
- Suitable for generator set engine fuels - gas and liquid fuels
- Standard range
  - Oil engines up to 2 MWe, single engine capacity
  - Gas engines up to 5 MWe, single engine capacity
- Instant hot water generation
- Large water hold up to support fluctuating demand
- Adequate safeties provided to ensure no adverse effect on generator set



Hot Water Generator on jacket hot water and combined exhaust gas and jacket hot water

## Experience that you can Count on

Thermax's experience with gensets goes back several decades. The result being that, today, Thermax offers reliable engine waste heat recovery based CHPC products that can be configured for use with almost all leading gas engines/ DG sets:

- Caterpillar
- Cummins
- Deutz
- GE Jenbacher
- Guascor
- Greaves
- KOEL
- Man B&W
- Perkins
- Rolls Royce
- Skoda
- Wartsila
- Waukesha
- And many more

## Typical Steam Generation Potential

EnerGen on Gas engines	
Genset Rating kWe	Steam Generation F & A 100°C kg/h
330	300
580	500
1080	775
1365	1340
1800	1450
2000	1865
2400	2050
3050	2365

EnerGen on Oil engines	
Genset Rating KVA	Steam Generation F & A 100°C kg/h
380	230
500	300
750	480
1010	610
1250	840
1500	855
1875	980
2000	985

**Note:** Steam generation figures are indicative. Genset specific steam generation figures can be offered based on fuel, exhaust gas flow rate and temperature & allowable back pressure

In view of our constant endeavour to improve the quality of our products, we reserve the right to alter or change specifications without prior notice. All photographs shown in this publication are representative in purpose, and to be used for reference only. For actual details and specifications, please refer to Thermax offer document

Conserving Resources,  
Preserving the Future.



Air Pollution  
Control



Boiler and  
Heater



Build-Own  
-Operate



Chemical



Cooling



Projects and  
Energy  
Solutions



Process  
Heating



Renewable  
Energy



Water and Waste  
Solutions

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